

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: METALUX

Report Number: P1213049

Luminaire Tested: 4SNLED-LD5-33SL-SLW-UNV-L930-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213049
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27403)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/29/2018
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4SNLED-LD5-33SL-SLW-UNV-L930-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

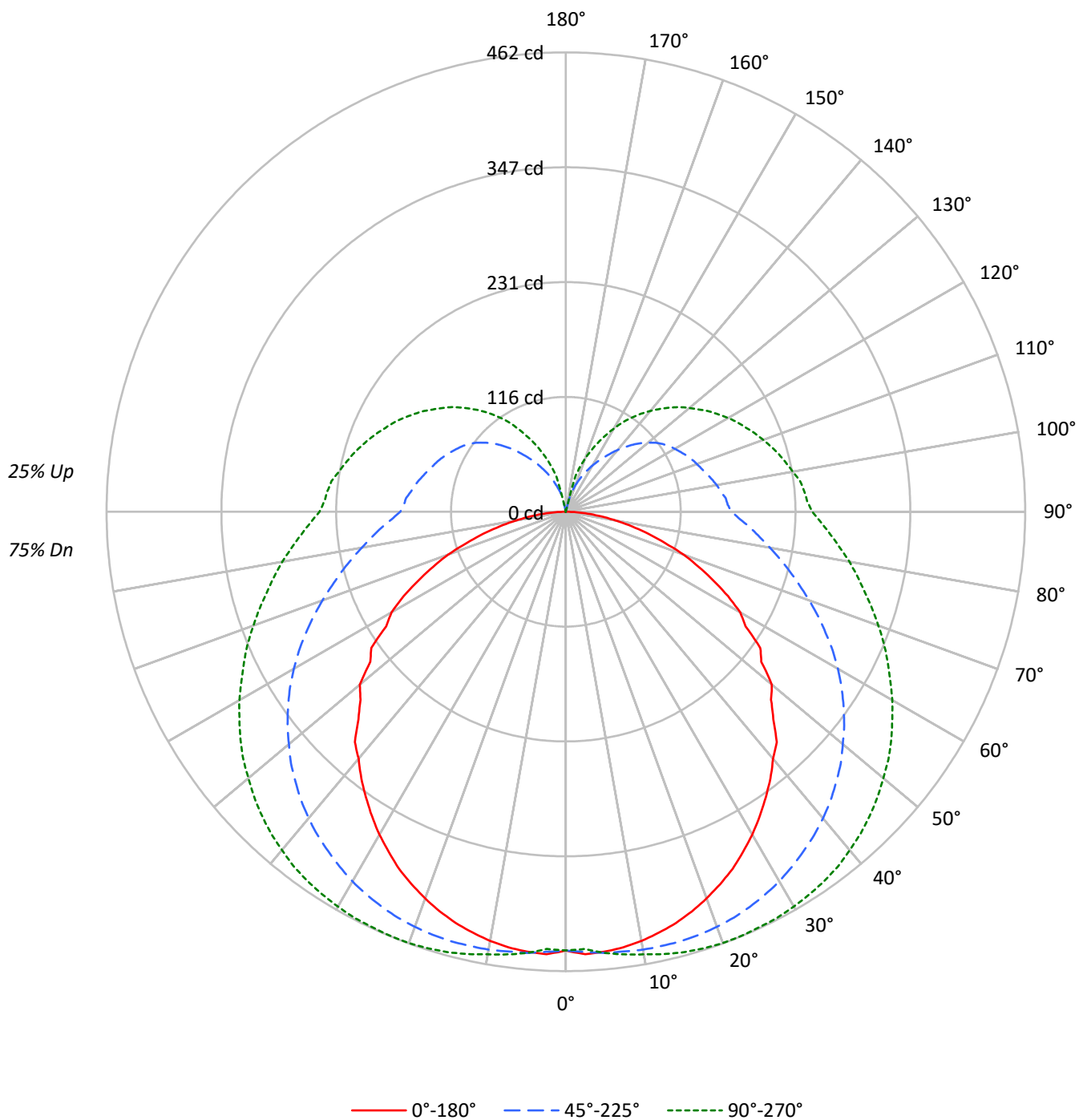
Lumens per Lamp: N/A
Luminaire Lumens: 2541.0 lumens
Efficiency: N/A
Efficacy: 90.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.56 / 1.59
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Semi-Direct

Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	113	113	113	113	107	107	107	107	97	97	97	88	88	88	79	79	79
1	100	94	89	84	95	89	84	80	80	76	73	72	69	66	64	62	60
2	90	80	72	66	85	76	69	63	68	63	58	61	57	53	55	51	48
3	81	69	60	53	76	66	58	51	59	53	47	53	48	43	47	43	39
4	74	61	51	44	69	58	49	43	52	45	39	47	41	36	42	37	33
5	67	54	44	37	63	51	43	36	46	39	33	42	35	31	37	32	28
6	62	48	39	32	58	46	37	31	41	34	29	37	31	27	34	28	24
7	57	43	34	28	54	41	33	27	37	30	25	34	28	23	30	25	21
8	53	39	31	25	50	37	29	24	34	27	22	31	25	21	28	23	19
9	49	36	27	22	47	34	26	21	31	24	20	28	23	18	26	21	17
10	46	33	25	20	44	31	24	19	29	22	18	26	21	16	24	19	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3566	3566	3566
5°	3593	3524	3498
10°	3577	3493	3479
15°	3552	3474	3486
20°	3519	3458	3492
25°	3485	3446	3498
30°	3437	3436	3517
35°	3384	3423	3540
40°	3333	3420	3563
45°	3269	3413	3592
50°	3279	3405	3620
55°	3221	3405	3664
60°	3103	3408	3714
65°	2932	3411	3783
70°	2742	3436	3890
75°	2405	3517	4046
80°	2032	3687	4307
85°	1510	4030	4688

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 90°

Luminance: 5335 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.4	1.7
10°-20°	125.7	4.9
20°-30°	199.8	7.9
30°-40°	256.4	10.1
40°-50°	289.5	11.4
50°-60°	295.4	11.6
60°-70°	273.7	10.8
70°-80°	231.7	9.1
80°-90°	185.0	7.3
90°-100°	157.1	6.2
100°-110°	140.0	5.5
110°-120°	119.2	4.7
120°-130°	94.7	3.7
130°-140°	67.2	2.6
140°-150°	40.1	1.6
150°-160°	18.7	0.7
160°-170°	4.4	0.2
170°-180°	0.0	0.0
0°-30°	367.9	14.5
0°-40°	624.3	24.6
0°-60°	1209.3	47.6
0°-90°	1899.7	74.8
90°-120°	416.2	16.4
90°-150°	618.1	24.3
90°-180°	641.0	25.2
0°-180°	2541.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	441	441	441	441	441	
5°	444	441	445	445	445	42
15°	428	432	447	456	459	121
25°	396	410	438	454	461	183
35°	350	376	417	442	453	219
45°	295	335	384	418	432	229
55°	239	279	341	383	400	210
65°	164	218	288	338	357	162
75°	86	152	234	291	311	92
85°	22	98	186	247	268	24
90°	1	80	167	227	248	2
95°	0	75	161	220	241	0
105°	0	69	147	202	222	0
115°	0	64	134	182	200	0
125°	0	56	119	161	176	0
135°	0	41	96	136	148	0
145°	0	27	67	102	116	0
155°	1	17	41	62	77	0
165°	1	9	18	26	36	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	441.3	441.3	441.3	441.3	441.3
2.5°	445.4	440.7	443.0	442.4	440.1
5°	444.2	440.7	445.4	445.4	445.4
7.5°	441.8	439.5	446.0	448.4	449.0
10°	438.3	438.3	447.2	450.8	452.0
12.5°	433.5	435.3	447.2	452.6	455.6
15°	428.1	431.7	447.2	455.6	458.6
17.5°	421.5	427.5	446.0	456.2	460.4
20°	413.8	422.7	444.2	456.2	461.6
22.5°	405.4	416.8	441.8	455.0	461.6
25°	396.5	409.6	438.3	453.8	461.0
27.5°	385.7	402.4	434.1	452.0	460.4
30°	375.0	394.1	429.3	449.6	458.6
32.5°	363.0	385.1	423.3	446.0	456.2
35°	350.5	376.2	416.8	442.4	453.2
37.5°	338.0	365.4	410.2	437.7	449.6
40°	324.2	354.7	402.4	431.7	444.2
42.5°	314.1	343.3	394.1	425.7	438.9
45°	295.0	335.0	384.5	418.0	432.3
47.5°	280.0	318.8	375.0	410.2	425.1
50°	270.5	305.7	363.6	401.2	416.8
52.5°	247.8	296.8	352.9	392.3	409.0
55°	238.8	278.8	340.9	382.7	399.5
57.5°	214.4	266.3	329.0	372.0	389.3
60°	202.4	249.0	315.9	361.2	379.2
62.5°	183.9	234.1	302.7	349.3	367.8
65°	163.6	217.9	288.4	338.0	357.1
67.5°	144.5	201.8	274.7	326.0	346.3
70°	126.0	185.1	260.3	314.1	334.4
72.5°	104.5	168.4	246.6	302.7	323.0
75°	86.0	152.3	233.5	290.8	311.1
77.5°	68.1	136.7	220.9	280.0	300.3
80°	51.4	121.8	208.4	268.7	289.6
82.5°	35.8	109.3	197.0	257.9	278.2
85°	22.1	97.9	186.3	246.6	267.5
87.5°	10.2	87.8	175.5	235.9	257.3
90°	1.2	80.0	166.6	226.9	247.8
92.5°	0.6	77.6	163.0	222.7	243.0
95°	0.0	75.2	161.2	220.3	240.6
97.5°	0.0	72.8	157.0	216.7	237.6
100°	0.0	71.7	154.1	211.4	231.7
102.5°	0.0	69.9	150.5	206.6	226.9
105°	0.0	69.3	146.9	202.4	222.1
107.5°	0.0	68.1	143.3	197.0	216.7
110°	0.0	66.9	140.3	192.3	211.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	65.7	137.3	187.5	206.0
115°	0.0	64.5	133.7	182.1	200.0
117.5°	0.0	62.7	130.2	176.7	194.7
120°	0.0	60.3	126.6	172.0	188.7
122.5°	0.0	57.9	123.0	166.0	182.1
125°	0.0	55.5	118.8	160.6	176.1
127.5°	0.0	51.9	114.0	154.6	169.0
130°	0.0	48.4	108.1	148.7	162.4
132.5°	0.6	44.8	102.1	142.1	155.8
135°	0.0	41.2	95.5	135.5	148.1
137.5°	0.0	38.2	88.4	128.4	140.3
140°	0.0	34.6	81.2	120.0	132.6
142.5°	0.0	30.5	74.0	111.1	124.2
145°	0.0	26.9	66.9	101.5	115.8
147.5°	0.6	23.9	60.3	91.4	106.9
150°	0.6	21.5	53.7	81.2	96.7
152.5°	0.6	19.1	47.2	71.7	86.6
155°	0.6	16.7	41.2	62.1	77.0
157.5°	0.6	14.3	34.6	52.5	66.9
160°	0.6	12.5	28.7	44.2	57.3
162.5°	0.6	10.7	23.3	34.6	47.2
165°	0.6	9.0	18.5	25.7	36.4
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)